

Last revised date: 02.08.2023 Supersedes Date: 21.07.2023

RTV 12A

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation(EU) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: RTV 12A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Silicone Elastomer Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials GmbH Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Contact person : commercial.services@momentive.com

Telephone : General information

+390510924300 (Customer Service Centre)

1.4

number

Emergency telephone

Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44

(0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

2.2 Label Elements Not applicable

Supplemental label information

EUH210: Safety data sheet available on request.

Additional Information: No data available.

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2.3 Other hazards

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Chemical nature: Polydimethylsiloxane containing vinyl groups.

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Toluene	0,1 - <1%	108-88-3	203-625-9	01- 2119471310- 51-XXXX	Not applicable	#
Octamethylcyc lotetrasiloxane	0,01 - <0,1%	556-67-2	209-136-7	01- 2119529238- 36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by

Classification

Chemical name	Classification	Notes
Toluene	Flam. Liq.: 2: H225; Skin Irrit.: 2: H315; Repr.: 2: H361d;	No data
	STOT RE: 2: H373; STOT SE: 3: H336; Asp. Tox.: 1: H304;	available.
	Aquatic Chronic: 3: H412; No data available.	No data
		available.
Octamethylcyclotetrasiloxa	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1:	
ne	H410;	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

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[#] This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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4.1 Description of first aid measures

Inhalation: Move to fresh air. Get medical attention if any discomfort continues.

Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical

advice/attention.

Skin Contact: Important to remove the substance from the skin immediately. Wash area

with soap and water.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Get medical

attention.

4.2 Most important symptoms and effects, both acute and

delayed:

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No data available.

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other

involved materials. Prevent runoff from fire control or dilution from entering

streams, sewers, or drinking water supply.

5.1 Extinguishing media

Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or

mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed. Use

water spray to keep fire-exposed containers cool.

5.3 Advice for firefighters

Special fire-fighting

procedures:

Take precautionary measures against static discharges. All equipment used

when handling the product must be grounded.

Special protective

equipment for fire-fighters:

Wear self-contained breathing apparatus and protective clothing. Use standard firefighting procedures and consider the hazards of other involved

materials.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Caution: Contaminated surfaces may be slippery.

6.2 Environmental Precautions: Prevent runoff from entering drains, sewers, or streams.

6.3 Methods and material for containment and cleaning

up:

Collect spillage with granulates, sawdust, rags or other absorbent. Shovel up and place in a container for salvage or disposal. Flush away spillage with plenty of water. Caution: Contaminated surfaces may be slippery.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment.

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SECTION 7: Handling and storage:

7.1 Precautions for safeWear appropriate personal protective equipment. Pack only into

handling: unbreakable packing materials (no glass containers !) to avoid contact with

substances mentioned in Section 10.

Storage conditions: Keep away from sources of ignition - No smoking. Store in original

container. Keep away from heat and flame.

7.2 Conditions for safe storage,

including any incompatibilities:

Keep away from water, acids, alkalis, amines and alcohols. Keep away

from food, drink and animal feeding stuffs. Keep container tightly closed

and in a well-ventilated place.

Storage Stability: Material is stable under normal conditions.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values		Source
Toluene	TWA	50 ppm	192 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
	STEL	100 ppm	384 mg/m3	EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
	STEL	100 ppm	384 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)
	TWA	50 ppm	192 mg/m3	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)

Biological Limit Values

None.

8.2 Exposure controls

Appropriate Engineering

Controls:

Eyewash bottle with clean water.

Individual protection measures, such as personal protective equipment

General information: Use only in well-ventilated areas. Do not eat, drink or smoke when using

the product. Wash hands after handling. Avoid contact with skin and eyes.

Eye/face protection: Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection: Advice: There is no risk to health due to contact with the chemical. Use

hand protection to prevent mechanically injuries.

Other: No data available.

Respiratory Protection: No protection is ordinarily required under normal conditions of use and with

adequate ventilation.

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Hygiene measures: Avoid contact with eyes, skin, and clothing. Wear suitable gloves and

eye/face protection. Observe good industrial hygiene practices. Wash

hands after handling. When using do not eat, drink or smoke.

Environmental exposure

controls:

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless
Odor: Odorless

Odor Threshold:No data available.pH:No data available.Freezing point:No data available.Boiling Point:> 260 °C (1,013 hPa)

Flash Point: > 148 °C

Evaporation Rate:No data available.Flammability (solid, gas):No data available.Flammability Limit - Upper (%):No data available.Flammability Limit - Lower (%):No data available.

Vapor pressure: Negligible

Relative vapor density: 1,0

Density: ca. 1.020 g/cm3

Relative density: 1,02

Solubility(ies)

Solubility in Water:NegligibleSolubility (other):Toluene

Partition coefficient (n-octanol/water) Log

Pow:

No data available.

Auto-ignition temperature: No data available.

Decomposition Temperature:Material is stable under normal conditions.

SADT: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

9.2 Other information

VOC Content: 1,5 g/l

SECTION 10: Stability and reactivity

10.1 Reactivity: No data available.

10.2 Chemical Stability: Material is stable under normal conditions.

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10.3 Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

10.4 Conditions to avoid: Heat, sparks, flames.

10.5 Incompatible Materials: Evolves hydrogen on contact with acids, alkalis, alcohols, powdered metals

or, as the case may be, metal oxides.

10.6 Hazardous Decomposition

Products:

Oxides of silicon. Carbon oxides Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of

formaldehyde are formed due to oxidative degradation.

SECTION 11: Toxicological information

General information: Experience has shown, that the above mentioned product can be used

without any danger to health, as long as the usual conditions of industrial

hygiene are observed.

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eve contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Toluene LD 50 (Rat): > 5.000 mg/kg

Octamethylcyclotetrasilox

ane

LD 50 (Rat): > 4.800 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Toluene LD 50 (Rabbit): 12.124 mg/kg

Octamethylcyclotetrasil

oxane

LD 50 (Rat): > 2.375 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Toluene LC50 (Rat, 4,00 h): 30,6 mg/l

Octamethylcyclotetrasilox LC50 (Rat, 4 h): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Toluene No data available. Octamethylcyclotetrasilox No data available.

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ane

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

No data available. Toluene

Octamethylcyclotetrasil

oxane

OECD Test Guideline 404 (Rabbit): Non irritating

Serious Eye Damage/Eye

Irritation:

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasil OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non

oxane irritating

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

No data available. Toluene

Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Octamethylcyclotetrasil

Pig): Not sensitizing oxane

Germ Cell Mutagenicity

In vitro

No data available. **Product:**

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasilox

ane

Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasilox

ane

Chromosomal aberration (OECD 475) Inhalation (Rat, male and female):

negative

Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

Toluene No data available. No data available. Octamethylcyclotetrasilox

ane

Reproductive toxicity

Product: No data available.

Specified substance(s)

Toluene No data available. Octamethylcyclotetrasilox No data available.

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Toluene No data available. Octamethylcyclotetrasilox No data available.

ane

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Toluene No data available. Octamethylcyclotetrasilox No data available.

ane

Aspiration Hazard

Product: No data available.

Specified substance(s)

Toluene No data available. Octamethylcyclotetrasilox No data available.

ane

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:

Toluene No data available. Octamethylcyclotetrasilo No data available.

xane

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Toluene LC0 (Leuciscus idus, 48 h): 52 mg/l

LC50 (Leuciscus idus, 48 h): 70 mg/l

LC50 (Pimephales promelas, 96 h): 34 mg/l

Octamethylcyclotetrasilox No toxicity at the limit of solubility; LC50 (Oncorhynchus mykiss, 96 h): >

0,022 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Toluene LC0 (Daphnia magna): 93 mg/l

(Daphnia magna): 270 mg/l

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Octamethylcyclotetrasilox

ane

No toxicity at the limit of solubility; EC50 (Daphnia magna, 48 h): > 0,015

mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasilox No toxicity at the limit of solubility; NOEC (Oncorhynchus mykiss, 93 d): >=

0,0044 mg/l ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasilox No toxicity at the limit of solubility; NOEC (Daphnia magna, 21 d): > 0,015

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

No data available. Toluene

No toxicity at the limit of solubility; ErC50 (Selenastrum capricornutum, 96 Octamethylcyclotetrasilox

h): > 0.022 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Toluene No data available.

Octamethylcyclotetrasilox (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace

ane Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

No data available. Toluene Octamethylcyclotetrasilox No data available.

ane

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

No data available. Toluene

Octamethylcyclotetrasilox Bioconcentration Factor (BCF): 12.400

ane

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Toluene No data available.

Octamethylcyclotetrasiloxa No data available. ne

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12.5 Results of PBT and vPvB assessment:

assessment: Toluene

Octamethylcyclotetrasiloxane

No data available.

No data available. Persistent.

Bioaccumulative and Toxic (PBT), very Persistent and very

Bioaccumulative

(vPvB)

Octamethylcyclotetrasiloxane (D4) meets the current EU REACh Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water.

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

to land, or to living organisms.

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Toluene Octamethylcyclotetrasilo

xane

No data available. No data available.

12.7 Other adverse effects:

Other hazards

Product: No data available.

Additional Information: Ecotoxicological data for this product is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: The generation of waste should be avoided or minimized wherever

possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

Not Regulated.

ADN

Not Regulated.

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RID

Not Regulated.

IMDG

Not Regulated.

IATA

Not Regulated.

14.6 Special precautions for user:

Keep away from food, drink and animal feeding stuffs. This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0,1 - 1,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0,1 - 1,0%

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances,

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Annex I:

Classification	Lower-tier Requirements	Upper-tier
		Requirements
E1. Hazardous to the aquatic		
environment		
P5b. Flammable liquids	50 t	200 t
P5c. Flammable liquids	5.000 t	50.000 t
P5a. Flammable liquids	10 t	50 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0,1 - 1,0%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Toluene	108-88-3	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:

On or in compliance with the

inventory

Canada DSL Inventory List:

Japan (ENCS) List:

On or in compliance with the

inventory

China Inv. Existing Chemical

Substances:

Korea Existing Chemicals Inv.

(KECI):

Canada NDSL Inventory:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of

Chemicals:

Taiwan Chemical Substance

Inventory: REACH:

E (special case)

On or in compliance with the

inventory

On or in compliance with the

inventory

Not in compliance with the

inventory.

On or in compliance with the

inventory

If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all

substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006

(REACH). For polymers, this includes the constituent monomers and other

reactants.

Remarks: None.

SECTION 16: Other information

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Revision Information:

Not relevant.

Key literature references and sources for data:

The partition coefficient of D4 between PDMS and water has been determined as log KPDMS-water =7.09. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 μg D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 μg D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

Wording of the H-statements in section 2 and 3

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated

exposure.

H412 Harmful to aquatic life with long lasting effects.

Training information: No data available.

Issue Date: 02.08.2023

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrantyor quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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